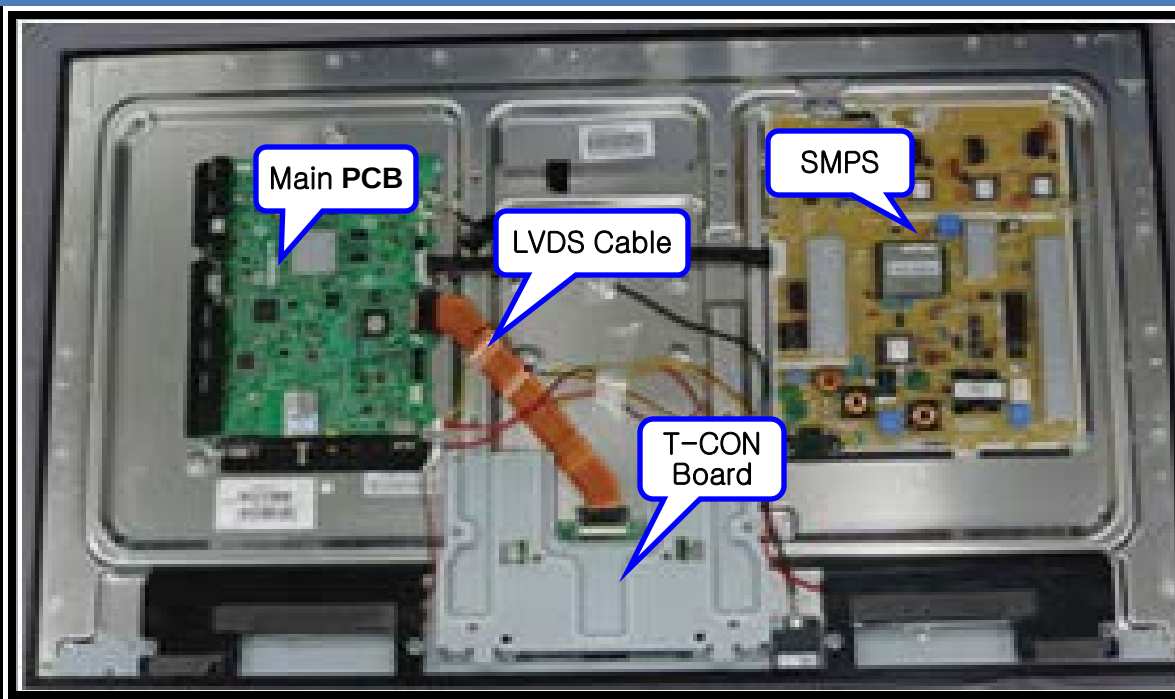


Service Bulletins

ASC20110624002: 2011 LED OPTION BYTE TABLE



Support Information

HELP 1-888-751-4086; 1-866-894-0637 (FE)

GSPN

<http://gspn3.samsungcsportal.com/><http://my.plus1solutions.net/clientPortals/samsung>

HOT TIPS

Power On Problems: (see page 2)

Video Problems: (see page 3)

Backlight on but no video:

Verify 13v on the fuse on the Tcon board (both sides of the fuse). If this is not there you have a bad Tcon. Replace tcon if available if not replace panel.

FIRMWARE

12/25/2011

T-GASAKUC

Version: 1026.0

Be sure to check for latest SW updates.

Description:

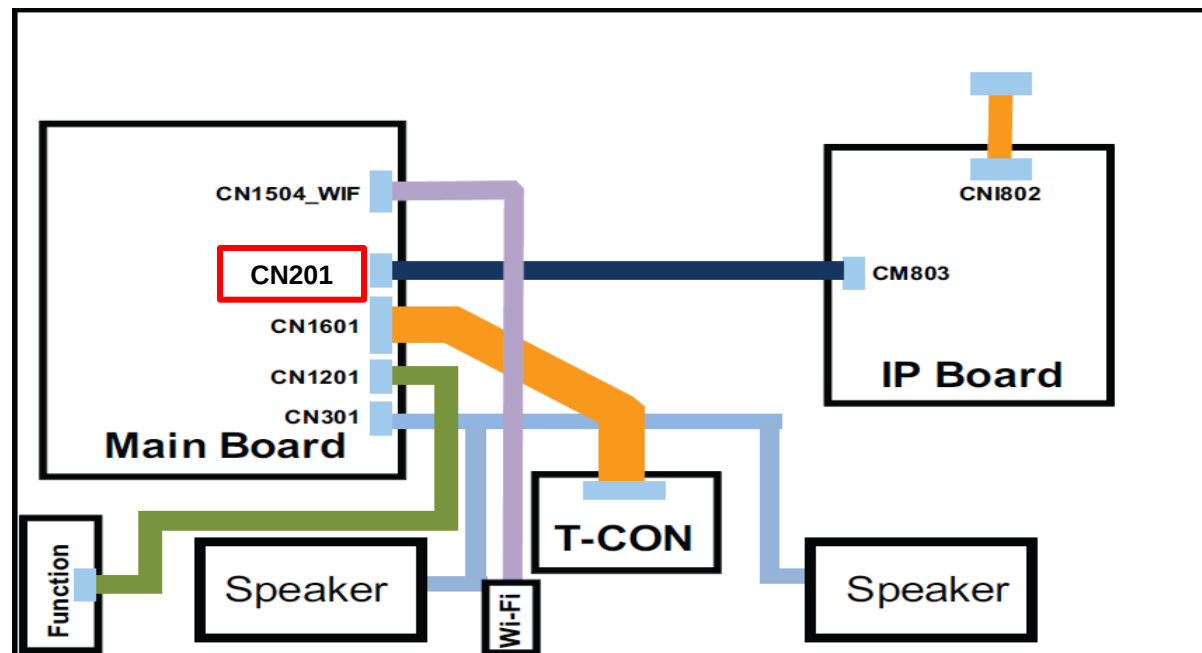
N/A

Part No.	Description
BN07-00998A	LCD-PANEL;LD460CSC-C1,CLL7CC3,10 BITS,46
BN44-00427B	SMPS
BN81-06343A	A/S-T CON;LD460CSC-C1
BN94-05038M	ASSY PCB MAIN;UN46D6400UFXZA
BN96-16722B	ASSY GUIDE P-STAND;UD5000-6000,SAMEX,PC,
BN96-16798B	ASSY SPEAKER P;6OHM,4PIN,10W,ENCLOSURE T
BN96-16866B	ASSY COVER P-MIDDLE;UD6400 46,MABS(CLEAR
BN96-16876A	ASSY COVER P-REAR;UD6500 46,UO,PCM,T0.45
BN96-18099H	ASSY BOARD P-IR;UD7000 46",CT5000-8720H(
BN96-18130C	ASSY CABLE P-FPCB LVDS;LED120HZ-46INCH,F
BN96-18232E	ASSY BOARD P-TOUCH FUNCTION;UA32D6500,CT
BN96-18953C	ASSY STAND P-BASE;UD6500 46,AL STAND
BN07-00998A	LCD-PANEL;LD460CSC-C1,CLL7CC3,10 BITS,46

Be sure to check for latest parts updates.

CN201(to Power Board)

1	B5V_PW	11	B13V_PW
2	SW_POWER	12	B13V_PW
3	B5V_PW	13	B13V_PW
4	A5V_PW	14	PWM_DIMMING
5	GND	15	GND
6	GND	16	PWM_DIMMING_CPLD2
7	B18VS_PW	17	OVD_ON
8	GND	18	PWM_DIMMING_CPLD3
9	B18VS_PW	19	OVD_LEVEL
10	SW_INVERTER	20	PWM_DIMMING_CPLD4

**Power-Up Sequence (CN201):**

1. Standby Voltage: Pin 4 (5Vdc)
2. Power-ON: Pin 2 (Low-Hi voltage transition)
3. Low Voltages: Pin 1, 3, 7, 9, 11, 12, 13
4. Backlight On: Pin 10 (5Vdc)

Forced Backlight-On Mode:

1. Disconnect Power Cord
2. Disconnect wire harness from CN201
3. Re-Connect Power Cord
4. LED Backlight should immediately turn on

TROUBLESHOOTING VIDEO PROBLEMS

1. Verify Video Operation

- Customer Picture Test (models available)
- "On Screen Display" (If OSD ok, source is suspected)
- Substitute with known good Source (external DVD or Signal Generator)

2. Use Test Patterns in Service Mode

- Select an active source signal (HDMI preferred). Test Pattern may rely on signal source to appear.
- Using customer remote: Mute+1+8+2+Power
- Using factory remote: Info+ Factory

ON SCREEN FAILURE EXAMPLES:



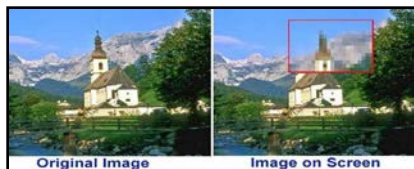
If Picture & Display errors, its likely a defective Main Board, LVDS, or T-CON



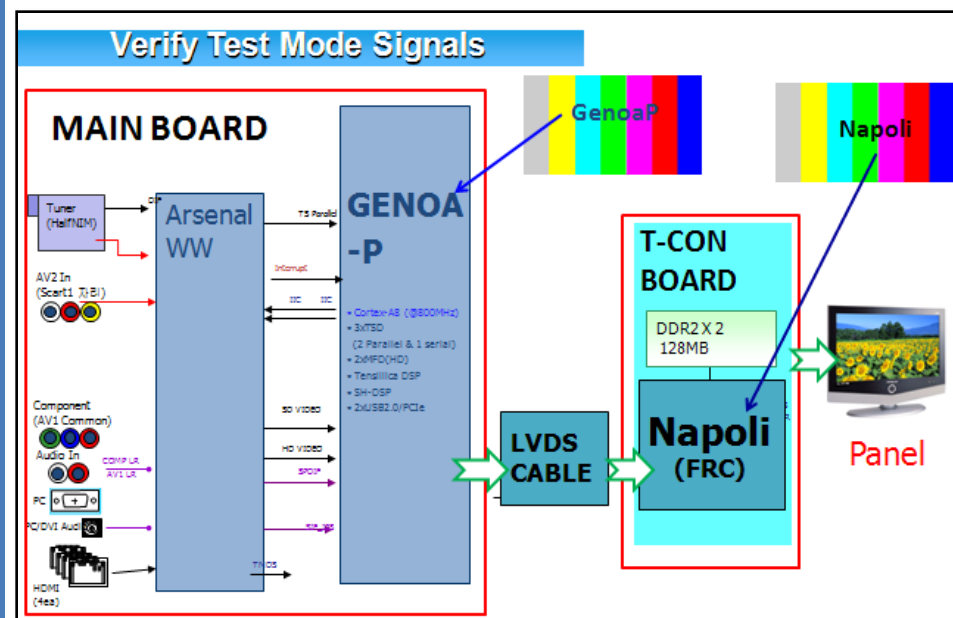
Green lines or a green screen likely caused by a defective main board, LVDS, or T-CON



Vertical or Horizontal Lines are likely a defective panel, but also T-CON, LVDS, or Main Board. Use Test Patterns in Factory Service Mode to determine error location



Pixelization can be caused by the main board, but is more commonly a source error



2011 LED TV Test Patterns

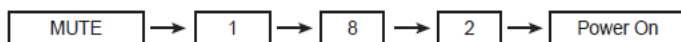
1. Select an active source signal (HDMI preferred). Test Pattern may rely on signal source to appear.
2. Access Service Mode
3. Access **SVC**
4. Access **Test Patterns**
5. Access **Genoa-P** (located on Main PCB)
6. Check Test Patterns
7. If OK, suspect input Source
8. Access **Napoli** (located on T-CON Board)
9. Check Test Patterns
10. If OK and Genoa-P was not good, suspect Main Board or LVDS Cable

ALIGNMENTS:

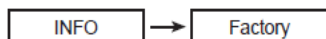
1. Check/Set Option Bytes
2. Check/Perform Firmware upgrade for all repairs
3. Perform reset in Service Mode and Plug & Play if Main is replaced
4. Inform customer all settings will reset if Main PCB is replaced

To enter Factory Mode:

- If you do not have Factory remote - control



- If you have Factory remote-control



Option	
Factory Menu Name	Data
Factory Reset	-
Type	32D1UF3E/40P1UF6E/46P1UF6E/55A1UF6E
Local set	US
Model	UD6400/UD6420/UD6450/UD6500/UD6900
TUNER	SEC_Si2173
DDR	
Light Effect	Off
Ch table	...
Country	USA
Front Color	U-T-CL-M/U-T-BL-M/U-T-BK-M

Option Bytes**Software Upgrade:**

Software Upgrade can be performed by network connection or downloading the latest firmware from "www.samsung.com" to a USB memory device.

By USB

Insert a USB drive containing the firmware upgrade file. **DO NOT** disconnect the power or remove the USB drive until upgrades are complete. The TV will be turned off and on automatically after completing the firmware upgrade. When software is upgraded, video and audio settings you have made will return to their default settings.

NOTE: The displayed menu may differ depending on the model.

By Online

Upgrades the software using the Internet.

First, configure your network. If The internet connection doesn't operate properly, connection can be broken, please retry downloading. If the problem still happens, download by USB and upgrade.

- Standby mode upgrade(Off/On)

A manual upgrade will be automatically performed at selected time. Since the power of the unit is turned on internally, the screen may be turned on slightly for the LED product. This phenomenon may continue for more than 1 hour until the software upgrade is complete.

Testing Bluetooth Operation (3D glasses and QWERTY remote):

Bluetooth communication will automatically activate when the TV is turned on. To test, use a cell phone with Bluetooth capabilities, and "SCAN for devices". If Bluetooth communication is working properly, "**DTVBluetooth**" will appear on the phone. If not, suspect Main PCB, or Bluetooth module is defective.

**Message on Cell Phone**